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TITLE : QUANTITATIVE DETERMINATION OF C-REACTIVE PROTEIN

ABSTRACT : PURPOSE: To measure the complex of a C-reaction protein (CRP) and the bound body thereof from the degree of turbidity by bringing a compsn. contg. a high- polymer compd. bound with phosphorylcholine (PC) into reaction with the CRP.

CONSTITUTION: A method for binding the PC and the PC and the high-polymer compd. is executed by a pure chemical reaction. Since the size of the molecules of the high-polymer compd. is selectable according to purposes, the quantitative determination of a fairly low concn. of the CRP up to the quantitative determination of a high concn. of the CRP are possible. Protein and polysaccharide which are living body components, nucleic acid, polystyrene, PVA, etc., which are soluble in water or dispersible in the form of pulverized articles in an aq. soln. are used for the high-polymer compd. The choline phosphorylglycoaldehyde which is the deriv. of the PC and has an aldehyde group reacts with the amino group of the protein by a reducing amination reaction and can be thereby introduced with the PC. The resulted PC deriv. is adequately dissolved in water and is used for the measurement of the CRP. The discrimination of the turbidity is executed by using any method among a capillary method, immunonephelometric method, etc.

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